

## ABSTRACT

A vehicle control system is configured by basic control units of a power train control unit, a steering control unit and a brake control unit that are arranged in a lower control hierarchy level, a vehicle motion control manager unit that is arranged in a middle control hierarchy level, and a driving support control unit that is arranged in an upper control hierarchy level. The basic control units transmits input data to vehicle motion control manager unit of middle control hierarchy level and/or driving support control unit of upper control hierarchy level, and receives a calculation result of the input data substituted into a predetermined calculation formula at vehicle motion control manager unit and/or driving support control unit. If the input data and the calculation result data are not consistent, it determines that there is a failure in vehicle motion control manager unit and/or driving support control unit.